



# STIC Search Results Feedback Form

**EIC17000**

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Kathleen Fuller, EIC 1700 Team Leader  
308-4290, CP3/4-3D62

## Voluntary Results Feedback Form

- I am an examiner in Workgroup:  Example: 1713  
➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

- Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC1700 CP3/4 3D62



=> FILE REG

FILE 'REGISTRY' ENTERED AT 16:15:37 ON 18 AUG 2003

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STRUCTURE FILE UPDATES: 15 AUG 2003 HIGHEST RN 567484-39-3

DICTIONARY FILE UPDATES: 15 AUG 2003 HIGHEST RN 567484-39-3

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> FILE HCAPLUS

FILE 'HCAPLUS' ENTERED AT 16:15:42 ON 18 AUG 2003

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FILE COVERS 1907 - 18 Aug 2003 VOL 139 ISS 8

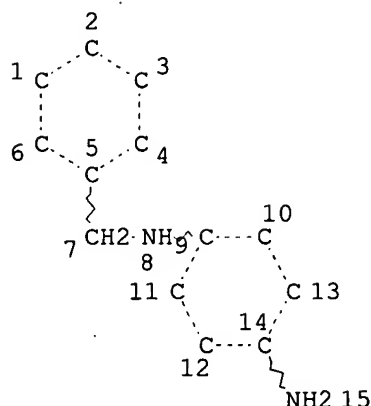
FILE LAST UPDATED: 17 Aug 2003 (20030817/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> D QUE

L4

STR



213 structures from  
the query

## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 15

## STEREO ATTRIBUTES: NONE

L6 213 SEA FILE=REGISTRY SSS FUL L4

L9 89 SEA FILE=HCAPLUS ABB=ON L6

L10 10 SEA FILE=HCAPLUS ABB=ON L9 AND (HAIR OR KERAT?)

=&gt; D L10 1-10 BIB ABS HITIND HITSTR

10 CA references utility

L10 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:300263 HCAPLUS

DN 138:308942

TI Substituted 2-aminoalkyl-1,4-diaminobenzene compounds and oxidation dye precursor compositions containing them

IN Chassot, Laurent; Braun, Hans-Juergen

PA Switz.

SO U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 692,971.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003070241	A1	20030417	US 2002-146264	20020515
	US 6436152	B1	20020820	US 2000-692971	20001020
	US 2002189033	A1	20021219	US 2002-124149	20020417
PRAI	DE 1999-19961272	A	19991218		
	US 2000-692971	A2	20001020		
OS	MARPAT 138:308942				

AB The oxidn. hair dye precursor compn., in the form of a soln., cream, emulsion or gel, contains (i) 0.005-20.0% by wt. of at least one coupler compd., and (ii) 0.005-20.0% by wt. of at least one developer compd., that includes at least one substituted 2-aminoalkyl-1,4-diaminobenzene compd. The compn. further comprises at least one direct

dye. Prepn. of substituted 2-aminoalkyl-1,4-diaminobenzene compds. is also described. For example, 1,4-diamino-2-(1-butylaminoethyl)benzene hydrochloride developer was prep'd. and formulated into an oxidn.

**hair** dye precursor compn. with couplers 1,3-dihydroxybenzene, 1,3-diamino-4-(2-hydroxyethoxy)-benzene sulfate, 5-amino-2-methyl-phenol, or 1-naphthol to give bright light blond, gray-blue, purple, or gray-rose died **hair** colors, resp.

IC ICM A61K007-13

NCL 008405000; 008406000; 008415000

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 25

ST aminoalkyl diaminobenzene prepn **hair** dye developer; oxidative **hair** dye precursor coupler diaminobenzene developer

IT **Hair** preparations

(dyes, oxidative; oxidative **hair** dye precursor compns. contg. substituted aminoalkyl diaminobenzene compds. developers)

IT 90-15-3, 1-Naphthol 95-88-5, 1-Chloro-2,4-dihydroxybenzene 106-50-3, 1,4-Diaminobenzene, biological studies 108-45-2, 1,3-Diaminobenzene, biological studies 108-46-3, 1,3-Dihydroxybenzene, biological studies 533-31-3, 3,4-Methylenedioxyphenol 608-25-3, 2-Methyl-1,3-dihydroxybenzene 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 3-Methyl-4-aminophenol 5697-02-9, 1-Acetoxy-2-methylnaphthalene 6369-59-1, 2,5-Diaminotoluene sulfate 26455-21-0, N-(3-Dimethylamino)phenylurea 56216-28-5, 3,5-Diamino-2,6-dimethoxypyridine dihydrochloride 71005-35-1 74918-21-1, 1,3-Bis(2,4-diaminophenoxy)propane tetrahydrochloride 84540-50-1, 3-Amino-2-chloro-6-methylphenol 90817-34-8, 3-Amino-2-methylamino-6-methoxypyridine 94158-14-2 135043-64-0, 4-Amino-2-aminomethylphenol dihydrochloride 159621-77-9 164919-03-3 217311-43-8, 2,4-Diamino-5-fluorotoluene sulfate 282542-32-9 350482-01-8 350482-02-9, 5-Amino-4-fluoro-2-methylphenol sulfate 364343-79-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidative **hair** dye precursor compns. contg. substituted aminoalkyl diaminobenzene compds. developers)

IT 123-30-8, 4-Aminophenol 591-27-5, 3-Aminophenol

RL: COS (Cosmetic use); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

(oxidative **hair** dye precursor compns. contg. substituted aminoalkyl diaminobenzene compds. developers)

IT 350481-07-1P 350481-08-2P 350481-09-3P 350481-10-6P 350481-11-7P  
350481-13-9P 350481-15-1P 350481-16-2P 350481-17-3P 350481-18-4P  
350481-19-5P 350481-20-8P 350481-21-9P 350481-22-0P  
**350481-23-1P** 350481-24-2P 350481-25-3P 350481-26-4P  
350481-27-5P 350481-29-7P 350481-30-0P 350481-31-1P 350481-32-2P  
350481-36-6P 350481-40-2P 350481-41-3P 350481-43-5P 350481-44-6P  
350481-45-7P 350481-46-8P 350481-47-9P 350481-48-0P 350481-50-4P  
350481-51-5P 350481-52-6P 350481-53-7P 350481-54-8P 350481-56-0P  
350481-57-1P 350481-58-2P 350481-59-3P 350481-61-7P 350481-62-8P  
350481-63-9P 350481-64-0P 350481-65-1P 350481-66-2P 350481-67-3P  
350481-69-5P 350481-70-8P 350481-71-9P 350481-72-0P 350481-73-1P  
350481-74-2P 350481-75-3P 350481-76-4P 350481-77-5P 350481-78-6P  
350481-79-7P 350481-80-0P 350481-81-1P 350481-82-2P 350481-84-4P  
350481-85-5P 350481-87-7P 350481-88-8P 350481-89-9P 350481-90-2P  
350481-91-3P 350481-92-4P 350481-93-5P 350481-94-6P 350481-95-7P  
350481-96-8P **350481-99-1P 350482-00-7P** 510774-40-0P  
510774-41-1P 510774-42-2P 510774-43-3P 510774-44-4P 510774-45-5P  
510774-46-6P 510774-47-7P 510774-48-8P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological

study); PREP (Preparation); USES (Uses)

(oxidative hair dye precursor compns. contg. substituted aminoalkyl diaminobenzene compds. developers)

IT 56-40-6, Glycine, reactions 62-53-3, Aniline, reactions 63-68-3, L-Methionine, reactions 68-12-2, Dimethylformamide, reactions 70-47-3, Asparagine, reactions 75-04-7, Ethylamine, reactions 75-31-0, Isopropylamine, reactions 95-85-2, 4-Chloro-2-aminophenol 96-20-8, 2-Amino-1-butanol 97-51-8, 2-Hydroxy-5-nitrobenzaldehyde 98-03-3, 2-Thiophenecarboxaldehyde 99-57-0, 2-Amino-4-nitrophenol 99-98-9, 4-Amino-N,N-dimethylaniline 100-10-7, 4-Dimethylaminobenzaldehyde 100-52-7, Benzaldehyde, reactions 104-86-9, 4-Chlorobenzylamine 106-47-8, 4-Chloroaniline, reactions 106-49-0, 4-Methylaniline, reactions 107-10-8, Propylamine, reactions 107-11-9, Allylamine 107-15-3, Ethylenediamine, reactions 108-00-9, 2-Dimethylaminoethylamine 109-01-3 109-55-7, 3-Dimethylaminopropylamine 109-83-1, 2-Methylaminoethanol 109-85-3, 2-Methoxyethylamine 110-58-7, Pentylamine 110-73-6, 2-Ethylaminoethanol 110-91-8, Morpholine, reactions 111-42-2, Diethanolamine, reactions 120-57-0, 3,4-Methylenedioxybenzaldehyde 123-08-0, 4-Hydroxybenzaldehyde 123-72-8, Butyraldehyde 123-75-1, Pyrrolidine, reactions 141-43-5, Ethanolamine, reactions 147-85-3, L-Proline, reactions 364-73-8, 1-Bromo-4-fluoro-3-nitrobenzene 364-74-9 364-76-1 437-83-2, 3-Fluoro-2-methoxyaniline 446-35-5 455-14-1, 4-Trifluoromethylaniline 498-62-4, 3-Thiophenecarboxaldehyde 498-63-5, Prolinol 500-22-1, Pyridine-3-carboxaldehyde 525-72-4, 1-Methyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline 536-21-0, 1-(3-Hydroxyphenyl)-2-aminoethanol 536-90-3, 3-Methoxyaniline 555-16-8, 4-Nitrobenzaldehyde, reactions 587-04-2, 3-Chlorobenzaldehyde 590-86-3 616-30-8 617-89-0, Furfurylamine 765-30-0, Cyclopropylamine 872-85-5, Pyridine-4-carboxaldehyde 1001-53-2, N-Acetylenediamine 1117-97-1, O,N-Dimethylhydroxylamine 1121-60-4, Pyridin-2-carboxaldehyde 1493-27-2, 1-Fluoro-2-nitrobenzene 2038-03-1, 4-Morpholineethanamine 2043-61-0, Cyclohexanecarboxaldehyde 2454-37-7, 3-(1-Hydroxyethyl)aniline 2516-47-4, Aminomethylcyclopropane 2812-47-7, Prolinamide 2835-95-2, 3-Amino-6-methylphenol 3731-51-9, 2-Picolylamine 3731-53-1, 4-Picolylamine 4214-76-0, 2-Amino-5-nitropyridine 4795-29-3, Tetrahydrofurfurylamine 5036-48-6, 1-(3-Aminopropyl)imidazole 5382-16-1, 4-Hydroxypiperidine 5616-32-0, Methylaminoacetonitrile 6168-72-5, 2-Aminopropanol 6291-85-6, 3-Ethoxypropylamine 6315-89-5, 3,4-Dimethoxyaniline 6859-99-0, 3-Hydroxypiperidine 6921-22-8 7304-32-7, 2-Fluoro-5-nitrobenzoic acid 7663-77-6, 1-(3-Aminopropyl)-2-pyrrolidone 13325-10-5, 4-Aminobutanol 14268-66-7, 3,4-Methylenedioxyaniline 24424-99-5, Di(tert-butyl dicarbonate) 25739-59-7 35303-76-5, 4-(2-Aminoethyl)benzenesulfonamide 40499-83-0, 3-Hydroxypyrrolidine 51980-54-2, 4-Pyrrolidinobenzaldehyde 68621-88-5 71026-66-9 244104-65-2 325953-40-0 325953-41-1 325953-45-5 325953-46-6 325953-48-8 510774-39-7

RL: RCT (Reactant); RACT (Reactant or reagent).

(oxidative hair dye precursor compns. contg. substituted aminoalkyl diaminobenzene compds. developers)

IT 325953-36-4P 350481-97-9P 350481-98-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(oxidative hair dye precursor compns. contg. substituted aminoalkyl diaminobenzene compds. developers)

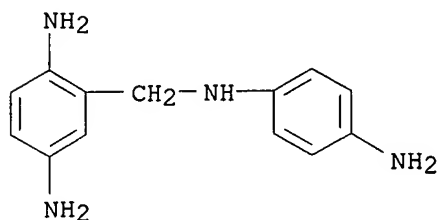
IT 350481-23-1P 350481-99-1P 350482-00-7P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oxidative hair dye precursor compns. contg. substituted  
aminoalkyl diaminobenzene compds. developers)

RN 350481-23-1 HCAPLUS

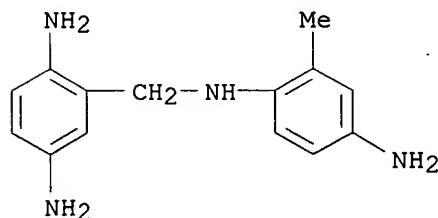
CN 1,4-Benzenediamine, 2-[[ (4-aminophenyl)amino]methyl]-, hydrochloride (9CI)  
(CA INDEX NAME)



●x HCl

RN 350481-99-1 HCAPLUS

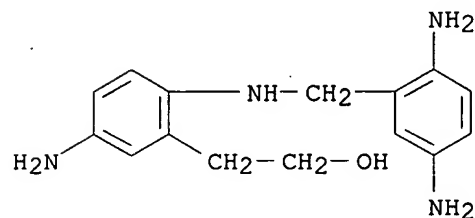
CN 1,4-Benzenediamine, N-[(2,5-diaminophenyl)methyl]-2-methyl-, hydrochloride  
(9CI) (CA INDEX NAME)



●x HCl

RN 350482-00-7 HCAPLUS

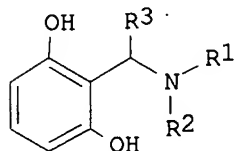
CN Benzeneethanol, 5-amino-2-[[ (2,5-diaminophenyl)methyl]amino]-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

L10 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2003:238180 HCAPLUS  
 DN 138:271380  
 TI Preparation of 2-substituted resorcinol derivatives containing coloring agent as well as new resorcinol derivatives  
 PA Wella AG, Germany  
 SO Ger. Gebrauchsmusterschrift, 48 pp.  
 CODEN: GGXXFR  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20217957	U1	20030327	DE 2002-20217957	20021120
PRAI	DE 2002-20217957		20021120		
OS	MARPAT 138:271380				
GI					



I

AB A means of the coloring **keratin** fibers based on a developer/generator substance coupling agent combination, is characterized by the fact that it contains at least one resorcinol deriv. I [R1, R2 = H, C1-6-alkyl, C2-6-alkenyl, acetyl, C1-4-alkoxy, C1-4-hydroxyalkyl, C2-4-dihydroxyalkyl, C1-4-alkoxy-C1-4-alkyl, C1-4-hydroxyalkoxy-C1-4-alkyl, C1-4-aminoalkyl, C1-4-(dimethylamino)alkyl, C1-4-(acetylamino)alkyl, C1-4-[(tert-butoxycarbonyl)amino]alkyl, C1-4-cyanoalkyl, C1-4-carboxyalkyl, C1-4-(aminocarbonyl)alkyl, pyridyl Me, furfuryl, tetrahydrofurfuryl, methyltetrahydrofurfuryl, (un)substituted pyridyl, Ph, pyrazolyl, piperidinyl, morpholinyl, piperazinyl, pyrrolidinyl; R3 = H, C1-6-alkyl] or its physiol. compatible water-sol. salts. Thus, I [R1 = CH2CH2OMe, R2 = R3 = H] was prepd. from resorcinol, via O-alkylation with ClCH2CH2OMe, Vilsmeier formylation, O-deprotection and reductive amination with MeOCH2CH2NH2. A **hair** dye was prepd. contg. I [R1 = CH2CH2OMe, R2 = R3 = H] and 2,5-diaminotoluene sulfate (developing agent) giving a medium blond color.

IC ICM C07C215-52

ICS A61K007-13; C07D213-36; C07D307-00; C07D207-04

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 41, 62

ST resorcinol deriv prepn coloring agent **keratin** fiber; aniline  
 deriv developer coupling agent dye component

IT **Hair** preparations

(dyes; prepn. of 2-substituted resorcinol derivs. contg. coloring agent as well as new resorcinol derivs.)

IT Fibers

RL: NUU (Other use, unclassified); USES (Uses)

(keratin, coloring agents for; prepn. of 2-substituted resorcinol derivs. contg. coloring agent as well as new resorcinol derivs.)

IT 89-57-6, 5-Aminosalicylic acid 92-65-9, 4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-(Diethylamino)aniline 95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 95-86-3, 2,4-Diaminophenol 99-98-9, 4-(Dimethylamino)aniline 101-54-2, 4-(Phenylamino)aniline 106-50-3, 1,4-Diaminobenzene, biological studies 123-30-8, 4-Aminophenol 123-31-9, 1,4-Dihydroxybenzene, biological studies 150-75-4, 4-(Methylamino)phenol 399-95-1, 4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 533-73-3, 1,2,4-Trihydroxybenzene 615-66-7, 2-Chloro-1,4-diaminobenzene 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triaminopyrimidin-4-(1H)-one 1630-11-1, 1,4-Diamino-3,5-diethylbenzene 2359-52-6, 4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2835-96-3, 4-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5862-80-6, 4-[(2,3-Dihydroxypropyl)amino]aniline 6369-59-1, 2,5-Diaminotoluene sulfate 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 7218-02-2, 1,4-Diamino-2,6-dimethylbenzene 7575-35-1, 4-[Di(2-hydroxyethyl)amino]aniline **17272-83-2**, N-Benzylbenzene-1,4-diamine 17672-22-9, 2-Amino-6-methylphenol 29785-47-5, 4-Amino-2-(methoxymethyl)phenol 45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazole 58262-44-5, N,N-Bis(2-hydroxyethyl)-p-phenylenediamine sulfate 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-(aminomethyl)benzene 70643-19-5, 2,4-Diamino-1-(2-hydroxyethoxy)benzene **71411-90-0** 73793-80-3, 1,4-Diamino-2-[hydroxymethyl]benzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene 93841-25-9, (2,5-Diaminophenyl)ethanol sulfate 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene 104333-08-6, 4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 105293-89-8, 4-(Dipropylamino)aniline 109942-17-8, 2,5-Diaminobiphenyl 110952-46-0 126335-43-1, 1,4-Diamino-2-(2-hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-aminophenyl)amino]butane 131311-66-5, 4,5-Diamino-1-benzyl-1H-pyrazole 135043-64-0, 4-Amino-2-(aminomethyl)phenol dihydrochloride 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole 155601-30-2, 4,5-Diamino-1-(2-hydroxyethyl)pyrazole sulfate 157469-53-9, 4,5-Diamino-1-[(4-methoxyphenyl)methyl]-1H-pyrazole 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1, 4,5-Diamino-1-[(4-chlorophenyl)methyl]-1H-pyrazole 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 181473-60-9, N-[(Furan-2-yl)methyl]benzene-1,4-diamine 207568-58-9, 2-[2-(Acetylamino)ethoxy]-1,4-diaminobenzene 244104-61-8, 1,4-Diamino-2-(thien-2-yl)benzene 246244-41-7, 1,4-Diamino-2-(thien-3-yl)benzene 251114-07-5, 2,3',5'-Triamino-1,1'-biphenyl 306959-12-6, 1,4-Diamino-2-(pyridin-3-yl)benzene **325952-88-3** 329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2, 1,4-Diamino-2-(methoxymethyl)benzene 400058-21-1, 4,5-Diamino-1-pentyl-1H-pyrazole 402559-72-2, N-[(Thien-3-yl)methyl]benzene-1,4-diamine 402559-73-3, N-[(Furan-3-yl)methyl]benzene-1,4-diamine 402559-76-6, N-[(Thien-2-yl)methyl]benzene-1,4-diamine **402825-68-7**, N-[4-(Pyrrolidin-1-yl)benzyl]benzene-1,4-diamine 503046-72-8,



4-(2,5-Diaminophenyl)-2-[(diethylamino)methyl]thiophene 503046-73-9,  
2-Chloro-3-(2,5-diaminophenyl)thiophene 503046-74-0,  
2,5-Diamino-4'-(1-methylethyl)-1,1'-biphenyl 503046-75-1,  
1,4-Diamino-2-[(phenylamino)methyl]benzene 503046-76-2 503046-96-6  
503047-00-5, 2,5-Diamino-4'-hydroxy-1,1'-biphenyl 503047-01-6,  
2,5-Diamino-2'-(trifluoromethyl)-1,1'-biphenyl 503047-02-7,  
2,4',5-Triamino-1,1'-biphenyl

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(developer substance for coloring agent contg. resorcinol derivs.;  
prepn. of 2-substituted resorcinol derivs. contg. coloring agent as  
well as new resorcinol derivs.)

IT 94564-77-9P 503046-49-9P 503046-50-2P 503046-51-3P 503046-52-4P  
503046-53-5P, 1-(2,6-Dihydroxybenzyl)piperidin-4-ol 503046-54-6P  
503046-55-7P 503046-56-8P 503046-57-9P 503046-58-0P 503046-59-1P  
503046-60-4P **503046-61-5P** 503046-62-6P 503046-63-7P  
503046-64-8P 503046-65-9P 503046-66-0P 503046-67-1P 503046-68-2P  
503046-69-3P

RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation);  
BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. and color of dyes contg.; prepn. of 2-substituted resorcinol  
derivs. contg. coloring agent as well as new resorcinol derivs.)

IT 94564-81-5P, 1,3-Dihydroxy-2-(aminomethyl)benzene 503046-77-3P,  
N-[2-(2,6-Dihydroxybenzylamino)ethyl]acetamide 503046-78-4P,  
1,3-Dihydroxy-2-[(methylamino)methyl]benzene 503046-79-5P,  
2-[(2,6-Dihydroxybenzyl)amino]ethanol 503046-80-8P, 1-[2,6-  
Dihydroxybenzyl]pyridin-3-ol 503046-81-9P, [1-(2,6-  
Dihydroxybenzyl)pyrrolidin-2-yl]methanol 503046-82-0P,  
1-(2,6-Dihydroxybenzyl)piperidin-3-ol 503046-83-1P 503046-84-2P,  
2-(2,6-Dihydroxybenzylamino)propan-1-ol 503046-85-3P 503046-86-4P  
503046-87-5P 503046-88-6P 503046-89-7P 503046-90-0P 503046-91-1P,  
1,3-Dihydroxy-2-[(phenylamino)methyl]benzene **503046-93-3P**

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological  
study); PREP (Preparation); USES (Uses)

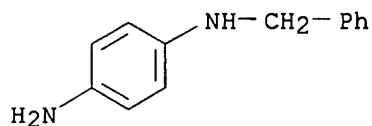
(prepn. of 2-substituted resorcinol derivs. contg. coloring agent as  
well as new resorcinol derivs.)

IT **17272-83-2**, N-Benzylbenzene-1,4-diamine **71411-90-0**  
**325952-88-3 402825-68-7**, N-[4-(Pyrrolidin-1-  
yl)benzyl]benzene-1,4-diamine

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(developer substance for coloring agent contg. resorcinol derivs.;  
prepn. of 2-substituted resorcinol derivs. contg. coloring agent as  
well as new resorcinol derivs.)

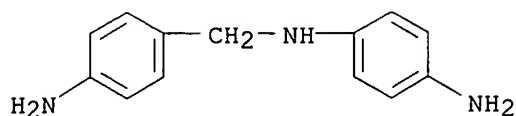
RN 17272-83-2 HCAPLUS

CN 1,4-Benzenediamine, N-(phenylmethyl)- (9CI) (CA INDEX NAME)



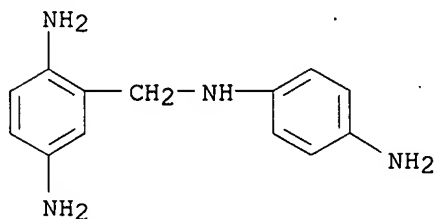
RN 71411-90-0 HCAPLUS

CN 1,4-Benzenediamine, N-[(4-aminophenyl)methyl]- (9CI) (CA INDEX NAME)



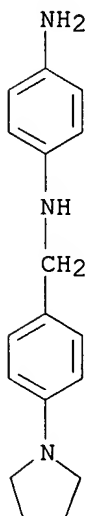
RN 325952-88-3 HCAPLUS

CN 1,4-Benzenediamine, N-[(2,5-diaminophenyl)methyl]- (9CI) (CA INDEX NAME)



RN 402825-68-7 HCAPLUS

CN 1,4-Benzenediamine, N-[[4-(1-pyrrolidinyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

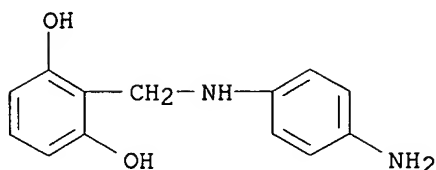


IT 503046-61-5P

RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. and color of dyes contg.; prepn. of 2-substituted resorcinol  
 derivs. contg. coloring agent as well as new resorcinol derivs.)

RN 503046-61-5 HCAPLUS

CN 1,3-Benzenediol, 2-[[[(4-aminophenyl)amino]methyl]-, dihydrochloride (9CI)  
(CA INDEX NAME)



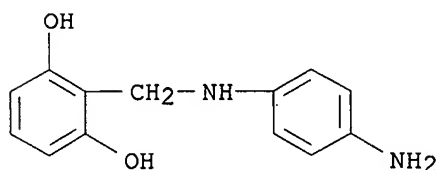
● 2 HCl

IT 503046-93-3P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of 2-substituted resorcinol derivs. contg. coloring agent as well as new resorcinol derivs.)

RN 503046-93-3 HCAPLUS

CN 1,3-Benzenediol, 2-[[4-aminophenyl]amino]methyl- (9CI) (CA INDEX NAME)



L10 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:171836 HCAPLUS

DN 136:236659

TI Synthesis of N-benzyl-p-phenylenediamine derivatives and their application  
 in oxidative **hair** dyes as developers

IN Chassot, Laurent; Braun, Hans-juergen

PA Wella Aktiengesellschaft, Germany

SO PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002018318	A1	20020307	WO 2001-EP3121	20010319
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 2001039307	A5	20020313	AU 2001-39307	20010319
BR 2001007154	A	20020618	BR 2001-7154	20010319
EP 1226107	A1	20020731	EP 2001-913893	20010319

*applicant*

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

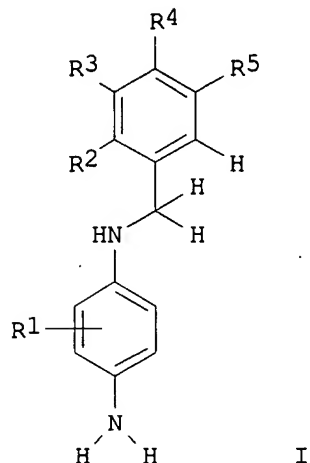
US 2002166181 A1 20021114 US 2002-49667 20020101

PRAI DE 2000-10042787 A 20000831

WO 2001-EP3121 W 20010319

OS MARPAT 136:236659

GI



AB The invention relates to coloring agents for **keratin** fibers contg. N-benzyl-p-phenylenediamine derivs. of general formula (I) and their physiol. compatible water sol. salts, in addn. to novel N-benzyl-p-phenylenediamine derivs. Thus a **hair** dye contained 1.25 mmol N-((3-hydroxyphenyl)methyl)-1,4-diamino-benzene hydrochloride as developer and 1.25 mmol 1,3-dihydroxybenzene as coupler. Further ingredients were (g): potassium oleate (8% aq.soln.) 1.0; ammonia (22% aq. soln.) 1.0; ethanol 1.0; ascorbic acid 0.3; water to 100.

IC ICM C07C211-51

ICS C07C215-50; C07C217-58; C07D295-12; C07C215-14; C07C233-43

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 25

ST N benzyl phenyldiamine deriv developer oxidative **hair** dye

IT Dyes

(direct; synthesis of N-heteroarylmethyl-p-phenyldiamine derivs. and application in oxidative **hair** dyes as developers)

IT **Hair** preparations

(dyes, oxidative; synthesis of N-benzyl-p-phenylenediamine derivs. and application in oxidative **hair** dyes as developers)

IT 141-86-6, 2,6-Diaminopyridine 5349-76-8, 2,4-Diamino-1-methoxy-5-methylbenzene 28020-38-4, 2,3-Diamino-6-methoxypyridine 83763-47-7, 2-Amino-4-[(2-hydroxyethyl)amino]anisole 90817-34-8, 3-Amino-6-methoxy-2-(methylamino)pyridine 122481-67-8, 2,4-Di[(2-hydroxyethyl)amino]-1,5-dimethoxybenzene 141614-04-2, 2,4-Diamino-1-ethoxy-5-methylbenzene 141614-05-3, 2,4-Diamino-1-(2-hydroxyethoxy)-5-methylbenzene 141922-20-5, 2,4-Diamino-1-fluoro-5-methylbenzene

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(coupler; synthesis of N-benzyl-p-phenylenediamine derivs. and application in oxidative hair dyes as developers)

IT 83-56-7, 1,5-Dihydroxynaphthalene 89-25-8, 3-Methyl-1-phenyl-5-pyrazolone 89-83-8, 5-Methyl-2-(1-methylethyl)phenol 90-15-3, 1-Naphthol 91-56-5, 2,3-Indolinedione 91-68-9, 3-Diethylaminophenol 92-44-4, 2,3-Dihydroxynaphthalene 95-88-5, 1-Chloro-2,4-dihydroxybenzene 99-07-0, 3-Dimethylaminophenol 108-45-2, 1,3-Diaminobenzene, biological studies 108-46-3, 1,3-Dihydroxybenzene, biological studies 137-19-9, 1,5-Dichloro-2,4-dihydroxybenzene 533-31-3, 3,4-Methylenedioxyphenol 575-38-2, 1,7-Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5, 3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-methylbenzene 619-05-6, 3,4-Diaminobenzoic acid 770-25-2, 3-[(2-Hydroxyethyl)amino]phenol 1953-54-4, 5-Hydroxyindole 2380-84-9, 7-Hydroxyindole 2380-86-1, 6-Hydroxyindole 2380-94-1, 4-Hydroxyindole 2835-95-2, 5-Amino-2-methylphenol 3131-52-0, 5,6-Dihydroxyindole 5697-02-9, 2-Methyl-1-naphthol-acetate 6201-65-6, 2-Chloro-1,3-dihydroxybenzene 6265-21-0, 3-[(2-Hydroxyethyl)amino]aniline 6941-70-4, 6-Bromo-1-hydroxy-3,4-methylenedioxybenzene 7228-00-4, 2-[(3-Hydroxyphenyl)amino]acetamide 14268-66-7, 3,4-Methylenedioxyaniline 16867-03-1, 2-Amino-3-hydroxypyridine 26011-57-4, 6-Amino-3,4-dihydro[1,4](2H)-benzoxazine 26021-57-8, 3,4-Dihydro-6-hydroxy-1,4(2H)-benzoxazine 29539-03-5, 5,6-Dihydroxyindoline 39489-79-7, 5-Amino-2,4-dichloro-phenol 53222-92-7, 3-Amino-2-methylphenol 55302-96-0, 5-[(2-Hydroxyethyl)amino]-2-methylphenol 61693-42-3, 3-Amino-2,4-dichloro-phenol 70643-19-5, 2,4-Diamino-1-(2-hydroxyethoxy)benzene 71500-41-9, 4-Amino-2-di[(2-hydroxyethyl)amino]-1-ethoxybenzene 71500-42-0, 3-[Di(2-hydroxyethyl)amino]aniline 76045-64-2, 3-[(2-Aminoethyl)amino]aniline 78661-33-3, 2-Amino-1-(2-hydroxyethoxy)-4-methylaminobenzene 80592-80-9, 3-[(2,3-Dihydroxypropyl)amino]-2-methylphenol 80592-81-0, 3-[(2-Hydroxyethyl)amino]-2-methylphenol 81892-72-0, 1,3-Di(2,4-diaminophenoxy)propane 84540-48-7, 2,4-Diaminophenoxy acetic acid 84540-50-1, 3-Amino-2-chloro-6-methylphenol 86817-42-7, 2-(4-Amino-2-hydroxyphenoxy)ethanol 94082-77-6, 2,4-Diamino-1,5-di(2-hydroxyethoxy)benzene 104752-50-3, 1-(2-Aminoethoxy)-2,4-diaminobenzene 104752-51-4, 1,2-Dichloro-3,5-dihydroxy-4-methylbenzene 110102-86-8, 5-Amino-4-chloro-2-methylphenol 111451-24-2, 2,6-Diamino-3,5-dimethoxypyridine 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene 122455-85-0, 5-Amino-4-fluoro-2-methylphenol 137290-78-9, 5-Amino-4-methoxy-2-methylphenol 139443-57-5, 5-Amino-4-ethoxy-2-methylphenol 142082-56-2, 3-[(2-Methoxyethyl)amino]phenol 146658-65-3, 5-[(3-Hydroxypropyl)amino]-2-methylphenol 149330-25-6, 2,6-Bis(2-hydroxyethyl)aminotoluene 168092-23-7, Di(2,4-diaminophenoxy)methane 207923-07-7, 5-Amino-2-ethylphenol 244028-59-9, 5-[(2-Hydroxyethyl)amino]-1,3-benzodioxole

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(coupler; synthesis of N-heteroarylmethyl-p-phenylenediamine derivs. and application in oxidative hair dyes as developers)

IT 7722-84-1, Hydrogen peroxide, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(synthesis of N-benzyl-p-phenylenediamine derivs. and application in oxidative hair dyes as developers)

IT 7732-18-5, Water, biological studies 71411-90-0

402826-44-2 402826-47-5 402826-49-7

402826-50-0 402826-51-1 402826-52-2

402826-53-3

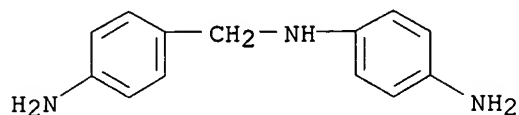
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(synthesis of N-heteroarylmethyl-p-phenylenediamine derivs. and

- application in oxidative hair dyes as developers)
- IT 5711-79-5P 13174-43-1P 17272-83-2DP,  
N-Benzyl-p-phenylenediamine, derivs. 17272-83-2P  
402825-55-2P 402825-56-3P 402825-57-4P  
402825-58-5P 402825-59-6P 402825-60-9P  
402825-61-0P 402825-62-1P 402825-63-2P  
402825-64-3P 402825-65-4P 402825-66-5P  
402825-67-6P 402825-68-7P 402825-69-8P  
402825-70-1P 402825-71-2P 402825-72-3P  
402825-73-4P 402825-74-5DP, derivs.  
402825-75-6DP, derivs. 402825-76-7P 402825-77-8P  
402825-78-9P 402825-79-0P 402825-80-3P  
402825-81-4P 402825-83-6P 402825-84-7P  
402825-86-9P 402825-90-5P 402825-91-6P  
402825-92-7P 402825-94-9P 402825-95-0P  
402825-96-1P 402825-97-2P 402825-98-3P  
402825-99-4P 402826-00-0P 402826-01-1P  
402826-02-2P 402826-03-3P 402826-04-4P  
402826-05-5P 402826-06-6P 402826-07-7P  
402826-08-8P 402826-09-9P 402826-10-2P  
402826-11-3P 402826-12-4P 402826-13-5P  
402826-14-6DP, derivs. 402826-15-7DP, derivs.  
402826-16-8P 402826-17-9P 402826-18-0P  
402826-19-1P 402826-20-4P 402826-21-5P  
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402826-34-0P 402826-35-1P 402826-36-2P  
402826-38-4P 402826-39-5P 402826-40-8P  
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(synthesis of N-heteroarylmethyl-p-phenylenediamine derivs. and application in oxidative hair dyes as developers)
- IT 90-02-8, 2-Hydroxybenzaldehyde, reactions 100-10-7 100-83-4,  
3-Hydroxybenzaldehyde 120-57-0, 3,4-Methylenedioxybenzaldehyde  
122-85-0, 4-Acetamidobenzaldehyde 123-08-0, 4-Hydroxybenzaldehyde  
123-11-5, 4-Methoxybenzaldehyde, reactions 135-02-4,  
2-Methoxybenzaldehyde 139-85-5, 3,4-Dihydroxybenzaldehyde 528-75-6,  
2,4-Dinitrobenzaldehyde 555-16-8, 4-Nitrobenzaldehyde, reactions  
1194-98-5 22042-73-5, 4-(2-Hydroxyethoxy)benzaldehyde 26153-38-8,  
3,5-Dihydroxybenzaldehyde 27913-86-6, 4-(Bis(2-hydroxyethyl)amino)  
benzaldehyde 51980-54-2, 4-Pyrrolidinobenzaldehyde 58028-76-5,  
2-Morpholino benzaldehyde 70547-87-4, 2,6-Dimethyl-4-hydroxybenzaldehyde  
71026-66-9, Carbamic acid, (4-aminophenyl)-, 1,1-dimethylethyl ester  
144072-30-0 325953-40-0, Carbamic acid, (4-amino-, 2-methylphenyl)-,  
1,1-dimethylethyl ester 325953-41-1, Carbamic acid, (4-amino-,  
3-methylphenyl)-, 1,1-dimethylethyl ester 325953-45-5 325953-46-6  
402826-41-9 402826-43-1  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(synthesis of N-heteroarylmethyl-p-phenylenediamine derivs. and application in oxidative hair dyes as developers)
- IT 71411-90-0 402826-44-2 402826-47-5  
402826-49-7 402826-50-0 402826-51-1  
402826-52-2 402826-53-3  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(synthesis of N-heteroarylmethyl-p-phenylenediamine derivs. and application in oxidative hair dyes as developers)

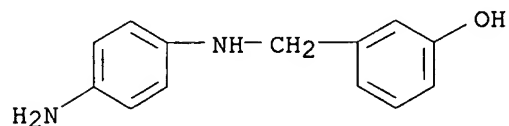
RN 71411-90-0 HCAPLUS

CN 1,4-Benzenediamine, N-[(4-aminophenyl)methyl]- (9CI) (CA INDEX NAME)



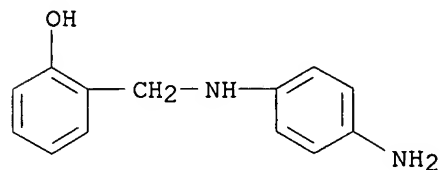
RN 402826-44-2 HCAPLUS

CN Phenol, 3-[[ (4-aminophenyl)amino]methyl]- (9CI) (CA INDEX NAME)



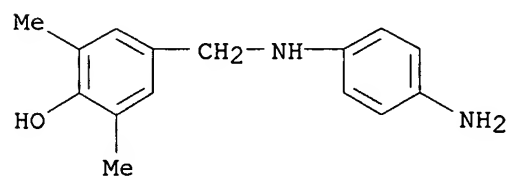
RN 402826-47-5 HCAPLUS

CN Phenol, 2-[[ (4-aminophenyl)amino]methyl]- (9CI) (CA INDEX NAME)



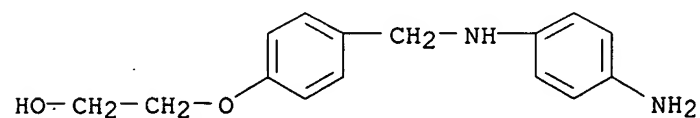
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CN Phenol, 4-[[ (4-aminophenyl)amino]methyl]-2,6-dimethyl- (9CI) (CA INDEX NAME)



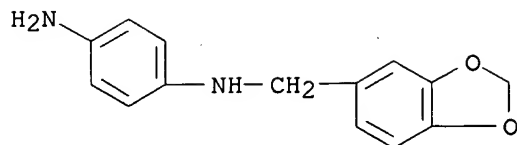
RN 402826-50-0 HCAPLUS

CN Ethanol, 2-[4-[[ (4-aminophenyl)amino]methyl]phenoxy]- (9CI) (CA INDEX NAME)



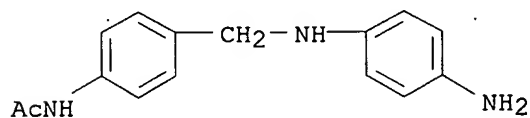
RN 402826-51-1 HCAPLUS

CN 1,4-Benzenediamine, N-(1,3-benzodioxol-5-ylmethyl)- (9CI) (CA INDEX NAME)



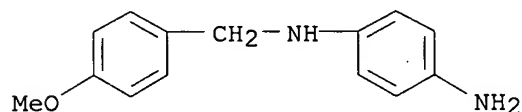
RN 402826-52-2 HCAPLUS

CN Acetamide, N-[4-[[[(4-aminophenyl)amino]methyl]phenyl]- (9CI) (CA INDEX NAME)



RN 402826-53-3 HCAPLUS

CN 1,4-Benzenediamine, N-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



IT 5711-79-5P 13174-43-1P 17272-83-2DP,  
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402825-55-2P 402825-56-3P 402825-57-4P  
402825-58-5P 402825-59-6P 402825-60-9P  
402825-61-0P 402825-62-1P 402825-63-2P  
402825-64-3P 402825-65-4P 402825-66-5P  
402825-67-6P 402825-68-7P 402825-69-8P  
402825-70-1P 402825-71-2P 402825-72-3P  
402825-73-4P 402825-74-5DP, derivs.  
402825-75-6DP, derivs. 402825-76-7P 402825-77-8P  
402825-78-9P 402825-79-0P 402825-80-3P  
402825-81-4P 402825-83-6P 402825-84-7P  
402825-86-9P 402825-90-5P 402825-91-6P  
402825-92-7P 402825-94-9P 402825-95-0P  
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402826-11-3P 402826-12-4P 402826-13-5P  
402826-14-6DP, derivs. 402826-15-7DP, derivs.  
402826-16-8P 402826-17-9P 402826-18-0P  
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402826-25-9P 402826-26-0P 402826-27-1P  
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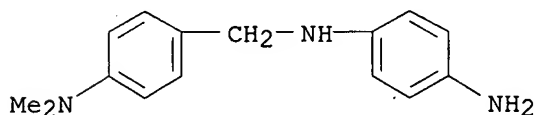
**402826-38-4P 402826-39-5P 402826-40-8P**

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis of N-heteroarylmethyl-p-phenyldiamine derivs. and application in oxidative hair dyes as developers)

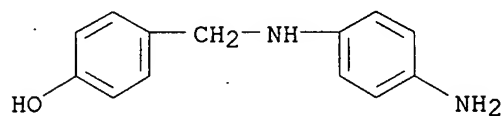
RN 5711-79-5 HCAPLUS

CN 1,4-Benzenediamine, N-[[4-(dimethylamino)phenyl]methyl]- (9CI) (CA INDEX NAME)



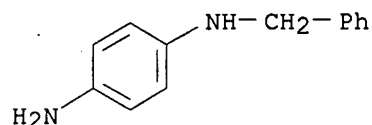
RN 13174-43-1 HCAPLUS

CN Phenol, 4-[[4-(aminophenyl)amino]methyl]- (9CI) (CA INDEX NAME)



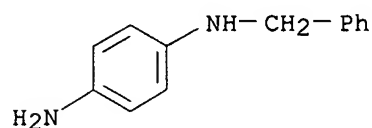
RN 17272-83-2 HCAPLUS

CN 1,4-Benzenediamine, N-(phenylmethyl)- (9CI) (CA INDEX NAME)



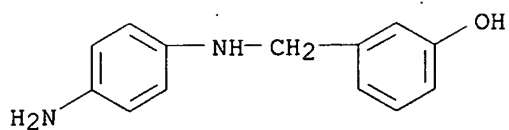
RN 17272-83-2 HCAPLUS

CN 1,4-Benzenediamine, N-(phenylmethyl)- (9CI) (CA INDEX NAME)



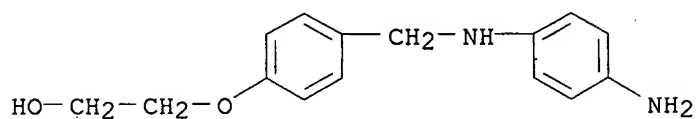
RN 402825-55-2 HCAPLUS

CN Phenol, 3-[[4-(aminophenyl)amino]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



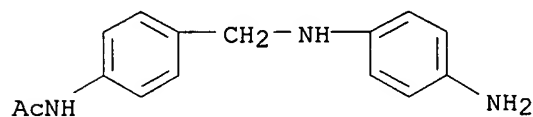
● HCl

RN 402825-56-3 HCAPLUS

CN Ethanol, 2-[4-[[[(4-aminophenyl)amino]methyl]phenoxy]-, monohydrochloride  
(9CI) (CA INDEX NAME)

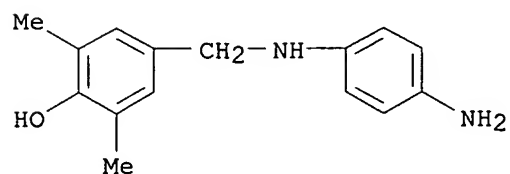
● HCl

RN 402825-57-4 HCAPLUS

CN Acetamide, N-[4-[[[(4-aminophenyl)amino]methyl]phenyl]-, monohydrochloride  
(9CI) (CA INDEX NAME)

● HCl

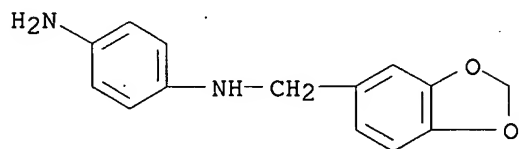
RN 402825-58-5 HCAPLUS

CN Phenol, 4-[[[(4-aminophenyl)amino]methyl]-2,6-dimethyl-, monohydrochloride  
(9CI) (CA INDEX NAME)

● HCl

RN 402825-59-6 HCAPLUS

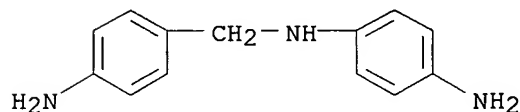
CN 1,4-Benzenediamine, N-[(1,3-benzodioxol-5-yl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402825-60-9 HCAPLUS

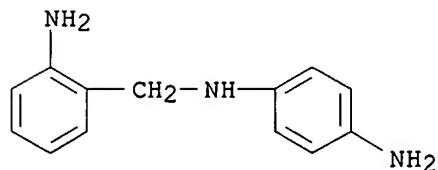
CN 1,4-Benzenediamine, N-[(4-aminophenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402825-61-0 HCAPLUS

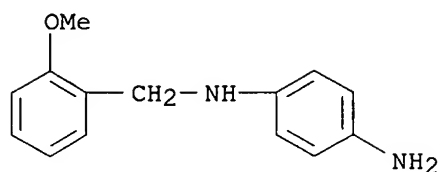
CN 1,4-Benzenediamine, N-[(2-aminophenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

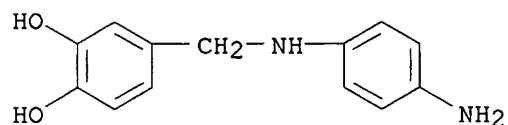
RN 402825-62-1 HCAPLUS

CN 1,4-Benzenediamine, N-[(2-methoxyphenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



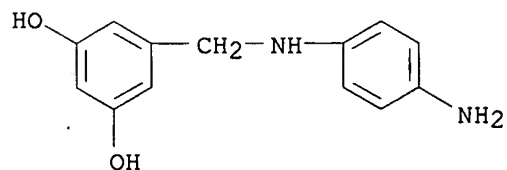
● HCl

RN 402825-63-2 HCAPLUS

CN 1,2-Benzenediol, 4-[[ (4-aminophenyl)amino]methyl]-, monohydrochloride  
(9CI) (CA INDEX NAME)

● HCl

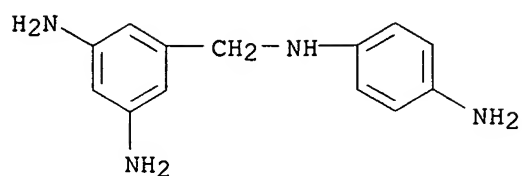
RN 402825-64-3 HCAPLUS

CN 1,3-Benzenediol, 5-[[ (4-aminophenyl)amino]methyl]-, monohydrochloride  
(9CI) (CA INDEX NAME)

● HCl

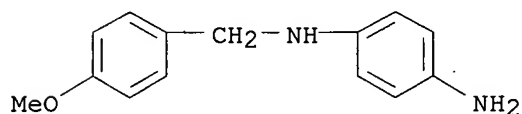
RN 402825-65-4 HCAPLUS

CN 1,3-Benzenediamine, 5-[[ (4-aminophenyl)amino]methyl]-, monohydrochloride  
(9CI) (CA INDEX NAME)



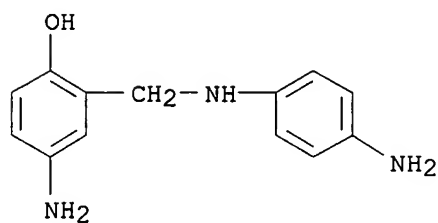
● HCl

RN 402825-66-5 HCAPLUS

CN 1,4-Benzenediamine, N-[(4-methoxyphenyl)methyl]-, monohydrochloride (9CI)  
(CA INDEX NAME)

● HCl

RN 402825-67-6 HCAPLUS

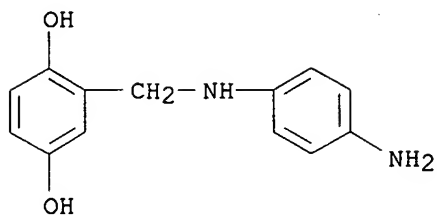
CN Phenol, 4-amino-2-[[[4-(aminophenyl)amino]methyl]-, monohydrochloride (9CI)  
(CA INDEX NAME)

● HCl

RN 402825-68-7 HCAPLUS

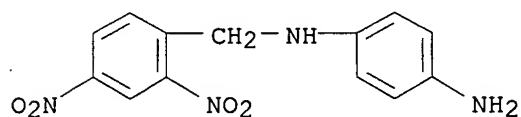
CN 1,4-Benzenediamine, N-[[4-(1-pyrrolidinyl)phenyl)methyl]- (9CI) (CA INDEX NAME)





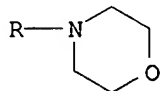
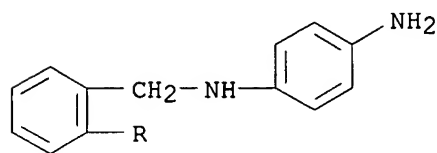
● HCl

RN 402825-72-3 HCAPLUS  
CN 1,4-Benzenediamine, N-[(2,4-dinitrophenyl)methyl]-, monohydrochloride  
(9CI) (CA INDEX NAME)



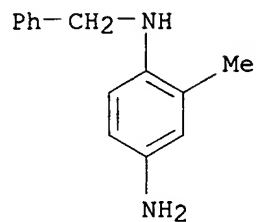
● HCl

RN 402825-73-4 HCAPLUS  
CN 1,4-Benzenediamine, N-[[2-(4-morpholinyl)phenyl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



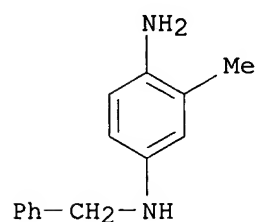
● HCl

RN 402825-74-5 HCAPLUS  
CN 1,4-Benzenediamine, 2-methyl-N1-(phenylmethyl)- (9CI) (CA INDEX NAME)

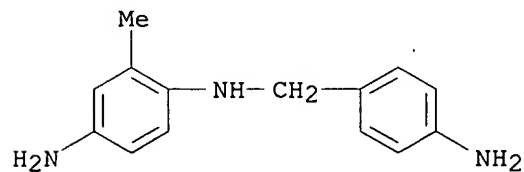


RN 402825-75-6 HCAPLUS

CN 1,4-Benzenediamine, 2-methyl-N4-(phenylmethyl)- (9CI) (CA INDEX NAME)

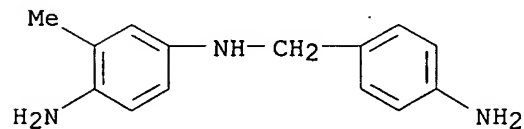


RN 402825-76-7 HCAPLUS

CN 1,4-Benzenediamine, N1-[(4-aminophenyl)methyl]-2-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

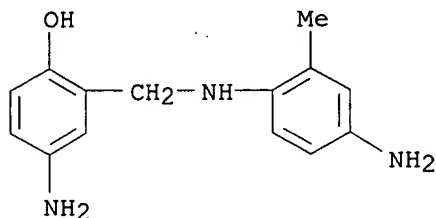
RN 402825-77-8 HCAPLUS

CN 1,4-Benzenediamine, N4-[(4-aminophenyl)methyl]-2-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

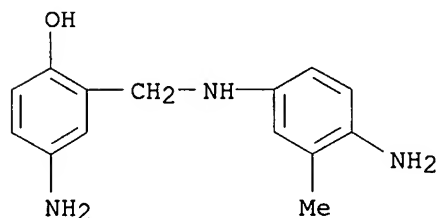


RN 402825-78-9 HCAPLUS

CN Phenol, 4-amino-2-[[ (4-amino-2-methylphenyl) amino]methyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)

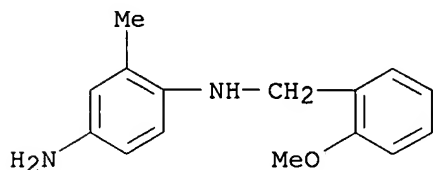
● HCl

RN 402825-79-0 HCAPLUS

CN Phenol, 4-amino-2-[[ (4-amino-3-methylphenyl) amino]methyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

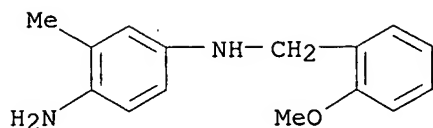
RN 402825-80-3 HCAPLUS

CN 1,4-Benzenediamine, N1-[(2-methoxyphenyl)methyl]-2-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

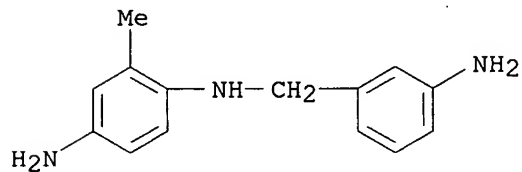
RN 402825-81-4 HCAPLUS

CN 1,4-Benzenediamine, N4-[(2-methoxyphenyl)methyl]-2-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)



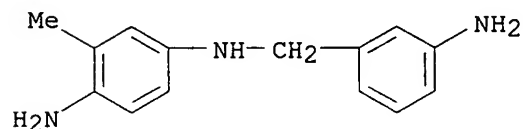
● HCl

RN 402825-83-6 HCAPLUS

CN 1,4-Benzenediamine, N1-[(3-aminophenyl)methyl]-2-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

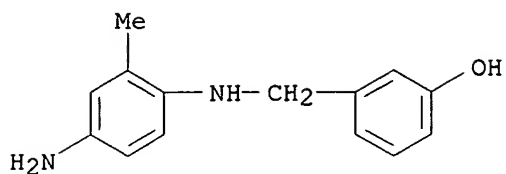
RN 402825-84-7 HCAPLUS

CN 1,4-Benzenediamine, N4-[(3-aminophenyl)methyl]-2-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

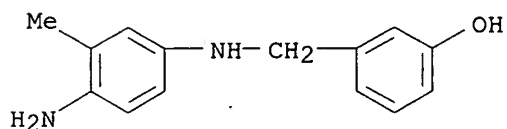
RN 402825-86-9 HCAPLUS

CN Phenol, 3-[[[(4-amino-2-methylphenyl)amino]methyl]-, monohydrochloride  
(9CI) (CA INDEX NAME)



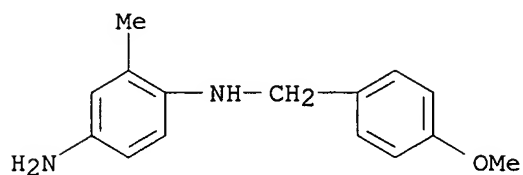
● HCl

RN 402825-90-5 HCAPLUS

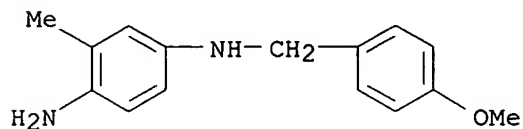
CN Phenol, 3-[[ (4-amino-3-methylphenyl)amino]methyl]-, monohydrochloride  
(9CI) (CA INDEX NAME)

● HCl

RN 402825-91-6 HCAPLUS

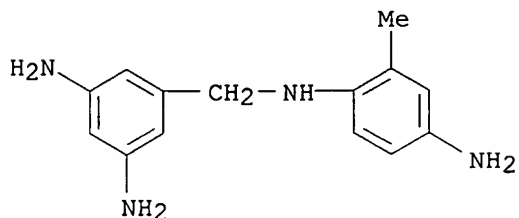
CN 1,4-Benzenediamine, N1-[(4-methoxyphenyl)methyl]-2-methyl- (9CI) (CA  
INDEX NAME)

RN 402825-92-7 HCAPLUS

CN 1,4-Benzenediamine, N4-[(4-methoxyphenyl)methyl]-2-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)

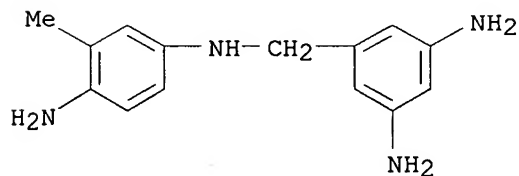
● HCl

RN 402825-94-9 HCAPLUS

CN 1,3-Benzenediamine, 5-[[ (4-amino-2-methylphenyl)amino]methyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)

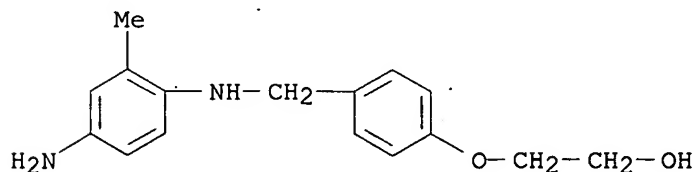
● HCl

RN 402825-95-0 HCAPLUS

CN 1,3-Benzenediamine, 5-[[ (4-amino-3-methylphenyl)amino]methyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

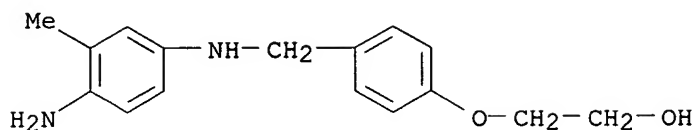
RN 402825-96-1 HCAPLUS

CN Ethanol, 2-[4-[[ (4-amino-2-methylphenyl)amino]methyl]phenoxy]-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

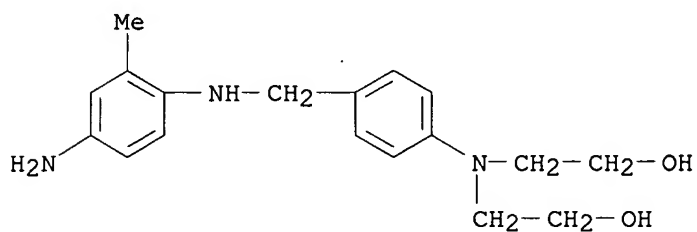
RN 402825-97-2 HCAPLUS

CN Ethanol, 2-[4-[[ (4-amino-3-methylphenyl)amino]methyl]phenoxy]-,  
monohydrochloride (9CI) (CA INDEX NAME)

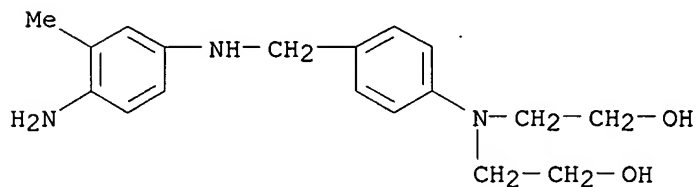


● HCl

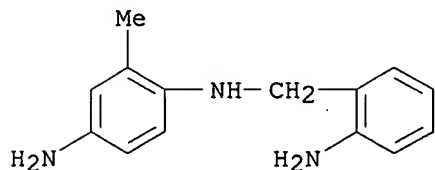
RN 402825-98-3 HCAPLUS

CN Ethanol, 2,2'-[[4-[[4-amino-2-methylphenyl]amino]methyl]phenyl]imino]bis-  
(9CI) (CA INDEX NAME)

RN 402825-99-4 HCAPLUS

CN Ethanol, 2,2'-[[4-[[4-amino-3-methylphenyl]amino]methyl]phenyl]imino]bis-  
(9CI) (CA INDEX NAME)

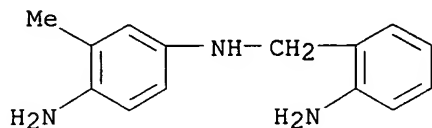
RN 402826-00-0 HCAPLUS

CN 1,4-Benzenediamine, N1-[(2-aminophenyl)methyl]-2-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RN 402826-01-1 HCAPLUS

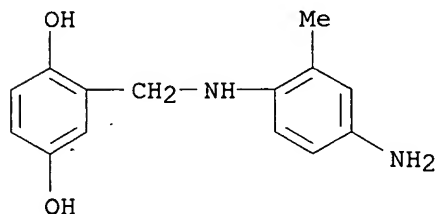
CN 1,4-Benzenediamine, N4-[(2-aminophenyl)methyl]-2-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-02-2 HCAPLUS

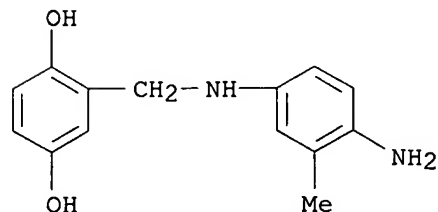
CN 1,4-Benzenediol, 2-[[[4-amino-2-methylphenyl)amino]methyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-03-3 HCAPLUS

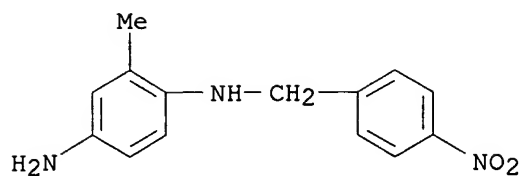
CN 1,4-Benzenediol, 2-[[[4-amino-3-methylphenyl)amino]methyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

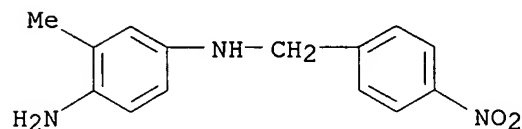
RN 402826-04-4 HCAPLUS

CN 1,4-Benzenediamine, 2-methyl-N1-[(4-nitrophenyl)methyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)



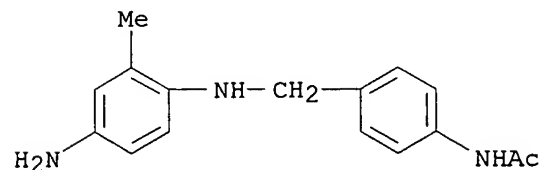
● HCl

RN 402826-05-5 HCAPLUS

CN 1,4-Benzenediamine, 2-methyl-N4-[(4-nitrophenyl)methyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

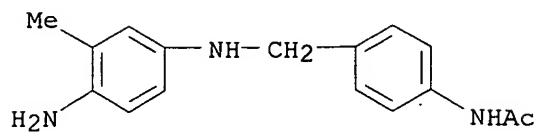
RN 402826-06-6 HCAPLUS

CN Acetamide, N-[4-[[[(4-amino-2-methylphenyl)amino]methyl]phenyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RN 402826-07-7 HCAPLUS

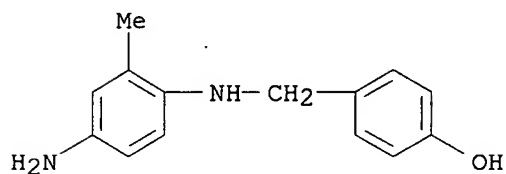
CN Acetamide, N-[4-[[[(4-amino-3-methylphenyl)amino]methyl]phenyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-08-8 HCAPLUS

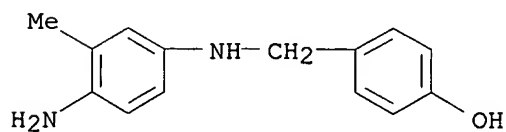
CN Phenol, 4-[[[(4-amino-2-methylphenyl)amino]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-09-9 HCAPLUS

CN Phenol, 4-[[[(4-amino-3-methylphenyl)amino]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

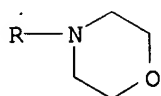
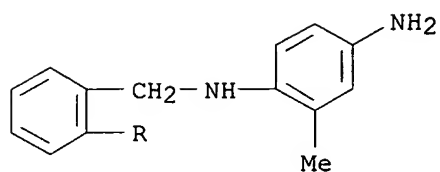


● HCl

RN 402826-10-2 HCAPLUS

CN 1,4-Benzenediamine, 2-methyl-N1-[[2-(4-morpholinyl)phenyl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

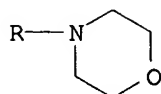
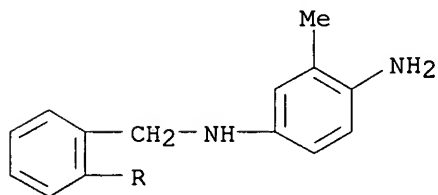




● HCl

RN 402826-11-3 HCAPLUS

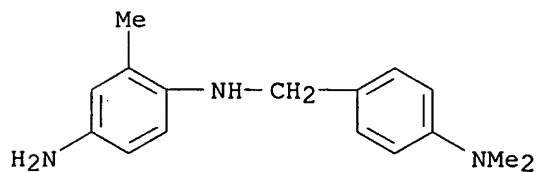
CN 1,4-Benzenediamine, 2-methyl-N4-[[2-(4-morpholinyl)phenyl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

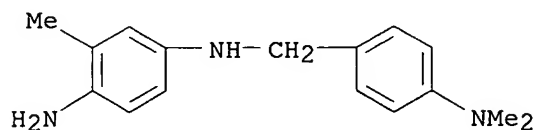
RN 402826-12-4 HCAPLUS

CN 1,4-Benzenediamine, N1-[[4-(dimethylamino)phenyl]methyl]-2-methyl-, (9CI) (CA INDEX NAME)



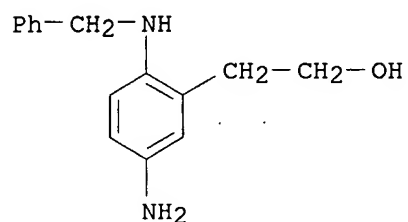
RN 402826-13-5 HCAPLUS

CN 1,4-Benzenediamine, N4-[[4-(dimethylamino)phenyl]methyl]-2-methyl- (9CI)  
(CA INDEX NAME)



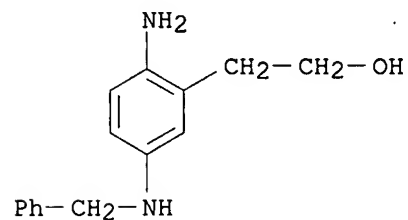
RN 402826-14-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-[(phenylmethyl)amino]- (9CI) (CA INDEX NAME)



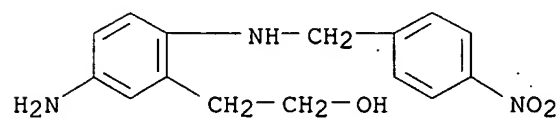
RN 402826-15-7 HCAPLUS

CN Benzeneethanol, 2-amino-5-[(phenylmethyl)amino]- (9CI) (CA INDEX NAME)



RN 402826-16-8 HCAPLUS

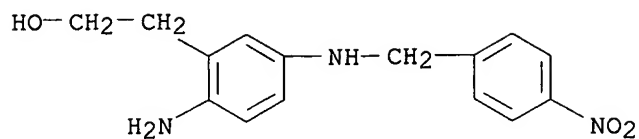
CN Benzeneethanol, 5-amino-2-[[4-(nitrophenyl)methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-17-9 HCAPLUS

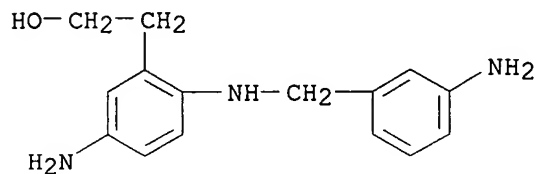
CN Benzeneethanol, 2-amino-5-[[4-(nitrophenyl)methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-18-0 HCAPLUS

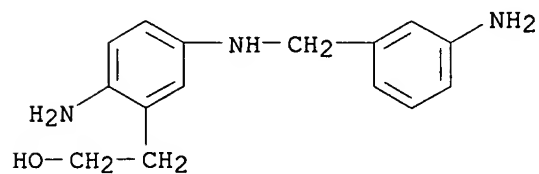
CN Benzeneethanol, 5-amino-2-[[[(3-aminophenyl)methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-19-1 HCAPLUS

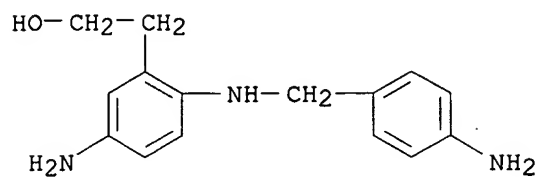
CN Benzeneethanol, 2-amino-5-[[[(3-aminophenyl)methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

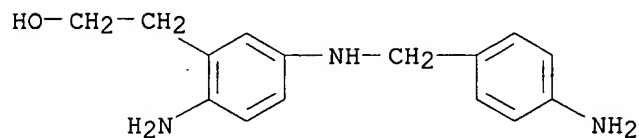
RN 402826-20-4 HCAPLUS

CN Benzeneethanol, 5-amino-2-[[[(4-aminophenyl)methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



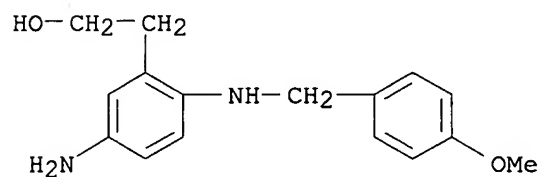
● HCl

RN 402826-21-5 HCAPLUS

CN Benzeneethanol, 2-amino-5-[[[4-aminophenyl)methyl]amino]-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

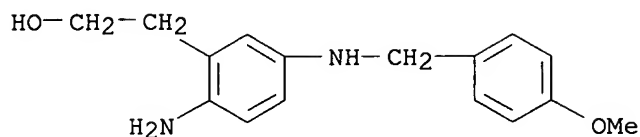
RN 402826-22-6 HCAPLUS

CN Benzeneethanol, 5-amino-2-[[[4-methoxyphenyl)methyl]amino]-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RN 402826-23-7 HCAPLUS

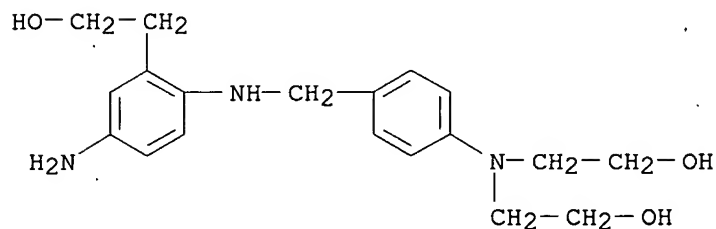
CN Benzeneethanol, 2-amino-5-[[[4-methoxyphenyl)methyl]amino]-,  
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

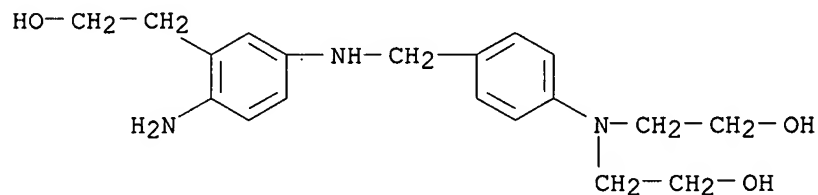
RN 402826-24-8 HCAPLUS

CN Benzeneethanol, 5-amino-2-[[[4-[bis(2-hydroxyethyl)amino]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)



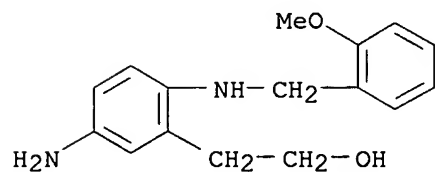
RN 402826-25-9 HCAPLUS

CN Benzeneethanol, 2-amino-5-[[[4-[bis(2-hydroxyethyl)amino]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)



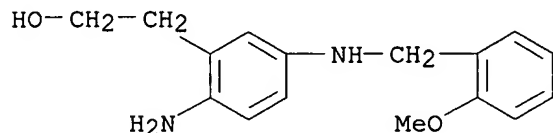
RN 402826-26-0 HCAPLUS

CN Benzeneethanol, 5-amino-2-[[[2-methoxyphenyl]methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME).



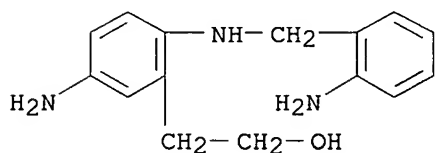
● HCl

RN 402826-27-1 HCAPLUS

CN Benzeneethanol, 2-amino-5-[[ (2-methoxyphenyl)methyl]amino]-,  
monohydrochloride (9CI) (CA INDEX NAME)

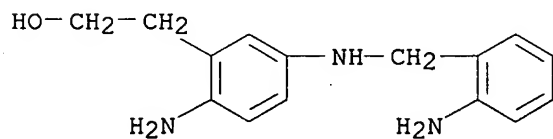
● HCl

RN 402826-28-2 HCAPLUS

CN Benzeneethanol, 5-amino-2-[[ (2-aminophenyl)methyl]amino]-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

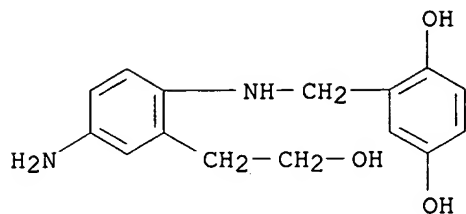
RN 402826-29-3 HCAPLUS

CN Benzeneethanol, 2-amino-5-[[ (2-aminophenyl)methyl]amino]-,  
monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RN 402826-30-6 HCAPLUS

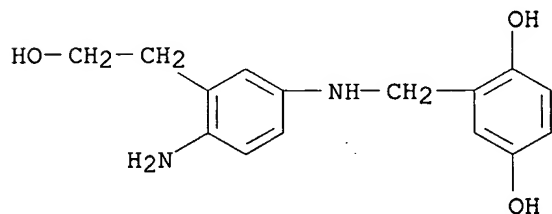
CN 1,4-Benzenediol, 2-[[[4-amino-2-(2-hydroxyethyl)phenyl]amino]methyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-31-7 HCAPLUS

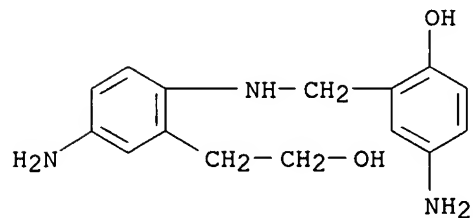
CN 1,4-Benzenediol, 2-[[[4-amino-3-(2-hydroxyethyl)phenyl]amino]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-32-8 HCAPLUS

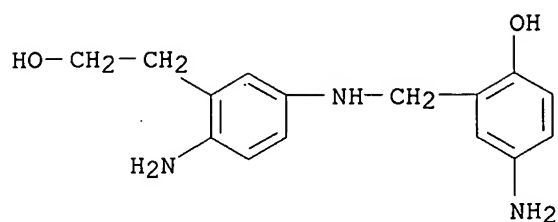
CN Benzeneethanol, 5-amino-2-[[[(5-amino-2-hydroxyphenyl)methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-33-9 HCAPLUS

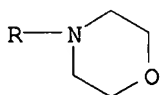
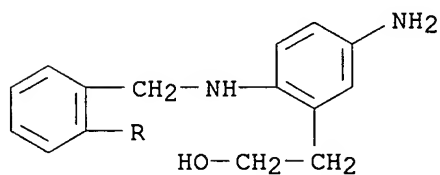
CN Benzeneethanol, 2-amino-5-[[[(5-amino-2-hydroxyphenyl)methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-34-0 HCAPLUS

CN Benzeneethanol, 5-amino-2-[[[2-(4-morpholinyl)phenyl]methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)

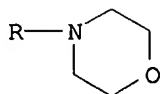
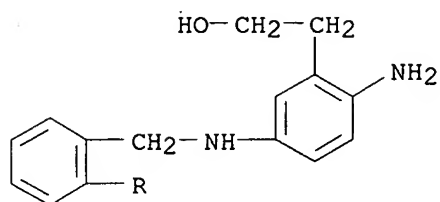


● HCl

RN 402826-35-1 HCAPLUS

CN Benzeneethanol, 2-amino-5-[[[2-(4-morpholinyl)phenyl]methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)

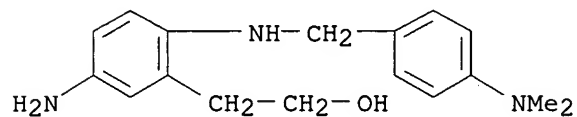




● HCl

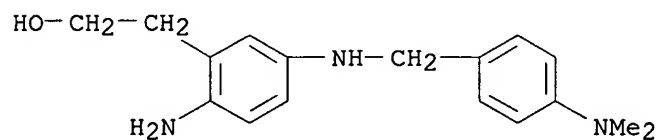
RN 402826-36-2 HCAPLUS

CN Benzeneethanol, 5-amino-2-[[[4-(dimethylamino)phenyl]methyl]amino]- (9CI)  
(CA INDEX NAME)



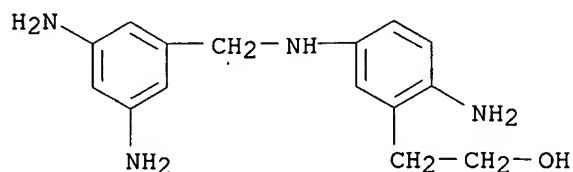
RN 402826-38-4 HCAPLUS

CN Benzeneethanol, 2-amino-5-[[[4-(dimethylamino)phenyl]methyl]amino]- (9CI)  
(CA INDEX NAME)



RN 402826-39-5 HCAPLUS

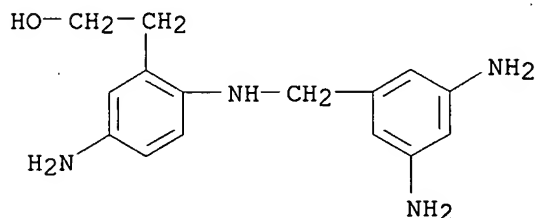
CN Benzeneethanol, 2-amino-5-[[[3,5-diaminophenyl]methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 402826-40-8 HCAPLUS

CN Benzeneethanol, 5-amino-2-[[ (3,5-diaminophenyl)methyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:171639 HCAPLUS

DN 136:236658

TI Primary intermediates for oxidative coloration of hair  
comprising arylaminomethylaminophenols

IN Pan, Yuh-guo; Lim, Mu-ill

PA Bristol-Myers Squibb Company, USA

SO PCT Int. Appl., 54 pp.

CODEN: PIXXD2

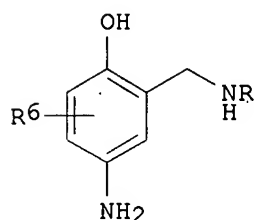
DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002017866	A1	20020307	WO 2001-US25554	20010815
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				

BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 AU 2001088261 A5 20020313 AU 2001-88261 20010815  
 EP 1331918 A1 20030806 EP 2001-967982 20010815  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 US 2002144355 A1 20021010 US 2001-930651 20010816  
 US 6562080 B2 20030513  
 PRAI US 2000-229182P P 20000830  
 WO 2001-US25554 W 20010815  
 OS MARPAT 136:236658  
 GI



AB Primary intermediates useful **hair** coloring systems comprise 2-arylaminomethyl-4-aminophenols. The invention provides new 2-arylaminomethyl-4-aminophenol compds. of I wherein R is a moiety selected from formulas (a), (b) or (c) wherein R1, R2, R3, R4 and R5 are each independently selected from a hydrogen atom, a halogen atom, a hydroxy group, an amino group, a C1-6 alkyl or haloalkyl group, a C1-6 alkoxy or haloalkoxy group, and a nitrile group, and R6 is a hydrogen atom, a halogen atom, a C1-4 alkyl or a C1-4 alkoxy group. Formulation of a **hair** dye contg. a 4-(5-amino-2-hydroxybenzylamino)-benzonitrile, 2-aminophenol, and resorcinol is disclosed.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 25

ST oxidative **hair** coloration arylaminomethyl aminophenol

IT **Hair** preparations

(dyes, oxidative; primary intermediates for oxidative coloration of **hair** comprising arylaminomethylaminophenols)

IT Oxidizing agents

(primary intermediates for oxidative coloration of **hair** comprising arylaminomethylaminophenols)

IT 90-15-3, Naphthalen-1-ol 95-70-5, 2-MethylBenzene-1,4-diamine 95-88-5, 4-ChloroBenzene-1,3-diol 106-50-3, Benzene-1,4-diamine, biological studies 108-46-3, Benzene-1,3-diol, biological studies 123-30-8, 4-Aminophenol 591-27-5 608-25-3 1004-74-6, Pyrimidinetetramine 2380-86-1, 1H-Indol-6-ol 2835-95-2 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-Methylphenol 7469-77-4, 2-Methylnaphthalen-1-ol 16867-03-1, 2-Aminopyridin-3-ol 17672-22-9, 2-Amino-6-methylphenol 26021-57-8, 3,4-Dihydro-2H-1,4-benzoxazin-6-ol 41927-22-4 53222-92-7 55302-96-0 70643-19-5 93841-24-8, 2-(2,5-Diamino-phenyl)-ethanol 94082-77-6 129697-50-3 155601-17-5 220264-60-8 307493-94-3 329320-36-7 402940-52-7 402940-53-8 402940-54-9 402940-55-0 402940-56-1 402940-57-2 402940-58-3 402940-59-4 402940-60-7

402940-61-8 402940-62-9 402940-63-0 402940-64-1 402940-65-2  
402940-66-3 402940-67-4 402940-68-5 402940-69-6 402940-70-9  
402940-71-0 402940-72-1 402940-73-2 402940-74-3 402940-75-4  
402940-76-5 402940-77-6 402940-78-7 402940-79-8 402940-80-1  
402940-81-2 402940-82-3 402940-83-4 402940-84-5 402940-85-6  
402940-86-7 402940-87-8 402940-88-9 402940-89-0 402940-90-3  
402940-91-4 402940-92-5 402940-93-6 402940-94-7 402940-95-8  
**402940-96-9** 402940-97-0 402940-98-1 402940-99-2  
402941-00-8

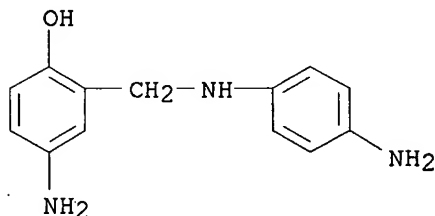
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(primary intermediates for oxidative coloration of **hair**  
comprising arylaminomethylaminophenols)

IT **402940-96-9**

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(primary intermediates for oxidative coloration of **hair**  
comprising arylaminomethylaminophenols)

RN 402940-96-9 HCAPLUS

CN Phenol, 4-amino-2-[[[(4-aminophenyl)amino]methyl]- (9CI) (CA INDEX NAME)



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:729678 HCAPLUS

DN 135:288587

TI Aminomethyl-m-dihydroxybenzene derivatives and coloring agents for  
**keratin** fibers containing these compounds

PA Wella AG, Germany

SO Ger. Gebrauchsmusterschrift, 35 pp.

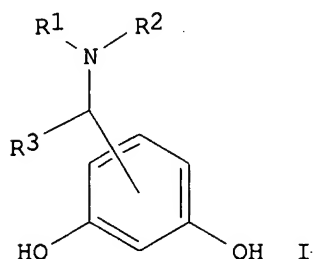
CODEN: GGXXFR

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20110356	U1	20011004	DE 2001-20110356	20010622
PRAI	DE 2001-20110356		20010622		
OS	MARPAT 135:288587				
GI					



- AB Aminomethyl-m-dihydroxybenzene derivs. I [R1, R2 = H, C1-2 alkoxy, C1-6 alkyl, C3-6 alkenyl, C2-4 hydroxyalkyl, C3-4 dihydroxyalkyl, C2-4 aminoalkyl, C2-4 dimethylaminoalkyl, C2-4 acetylaminoalkyl, C2-4 methoxyalkyl, C2-4 ethoxyalkyl, C1-4 cyanoalkyl, C1-4 aminocarbonylalkyl, pyridylmethyl, furfuryl, thienylmethyl, substituted pyridyl, (un)substituted phenylmethyl or -Et, or R1 and R2 together with the N atom form a ring, including (un)substituted piperidino, morpholino, piperazino, pyrrolidino; R3 = H, C1-4 alkyl; preferably, R3 = H and/or one of R1 or R2 = C2-4 hydroxyalkyl, 3,4-methylenedioxyphenyl, Ph] or their physiol. compatible, water-sol. salts, useful as couplers in oxidative **hair** dyes based on a developer substance-coupling substance combination in one suitable cosmetic carrier, are claimed. In examples given, compds. I are formulated with one or more known developer substances and one or more known addnl. coupling substances to give various shades of color when applied to **hair**; e.g., a prepn. contg. 0.20 g 1,3-dihydroxy-(4-phenylaminomethyl)benzene (prepn. given) 0.15 g 1,4-benzenediamine, 0.30 g 3-methyl-4-aminophenol and 0.30 1-naphthol (formulation given) afforded red-brown **hair**.
- IC ICM C07C215-46  
ICS A61K007-13
- CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 62
- ST dihydroxybenzene deriv prepn **hair** dye component; coupling substance oxidative **hair** dye dihydroxybenzene
- IT **Hair** preparations  
(dyes, oxidative; dihydroxybenzene derivs. as coupling substances in)
- IT Cosmetics  
**Hair**  
(prepn. of dihydroxybenzene derivs. and their use as coupling agents in oxidative **hair** dyes contg. developer-coupler substance combinations)
- IT **Keratins**  
RL: BPR (Biological process); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)  
(prepn. of dihydroxybenzene derivs. and their use as coupling agents in oxidative **hair** dyes contg. developer-coupler substance combinations)
- IT Hydroquinones  
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of dihydroxybenzene derivs. and their use as coupling agents in oxidative **hair** dyes contg. developer-coupler substance combinations)
- IT 83-56-7, 1,5-Dihydroxynaphthalene 89-25-8, 3-Methyl-1-phenyl-5-

pyrazolone 89-83-8, 5-Methyl-2-(1-methylethyl)phenol 90-15-3,  
1-Naphthol 91-56-5, 2,3-Indolinedione 91-68-9, 3-(Diethylamino)phenol  
92-44-4, 2,3-Dihydroxynaphthalene 95-88-5, 1-Chloro-2,4-dihydroxybenzene  
99-07-0, 3-(Dimethylamino)phenol 108-45-2, 1,3-Diaminobenzene,  
biological studies 108-46-3, 1,3-Dihydroxybenzene, biological studies  
137-19-9, 1,5-Dichloro-2,4-dihydroxybenzene 141-86-6,  
2,6-Diaminopyridine 533-31-3, 3,4-Methylenedioxyphenol 575-38-2,  
1,7-Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5,  
3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-methylbenzene 619-05-6,  
3,4-Diaminobenzoic acid 770-25-2, 3-[(2-Hydroxyethyl)amino]phenol  
1687-53-2, 5-Amino-2-methoxyphenol 1953-54-4, 5-Hydroxyindole  
2380-84-9, 7-Hydroxyindole 2380-86-1, 6-Hydroxyindole 2380-94-1,  
4-Hydroxyindole 2835-95-2 3131-52-0, 5,6-Dihydroxyindole 5349-76-8,  
2,4-Diamino-1-methoxy-5-methylbenzene 5697-02-9, 1-Acetoxy-2-  
methylnaphthalene 6265-21-0, 3-[(2-Hydroxyethyl)amino]aniline  
6941-70-4, 6-Bromo-1-hydroxy-3,4-methylenedioxybenzene 7228-00-4  
7469-77-4, 2-Methyl-1-naphthol 16867-03-1, 2-Amino-3-hydroxypyridine  
26011-57-4, 6-Amino-3,4-dihydro-1,4(2H)-benzoxazine 26021-57-8,  
3,4-Dihydro-6-hydroxy-1,4(2H)-benzoxazine 26455-21-0,  
N-[(3-Dimethylamino)phenyl]urea 28020-38-4, 2,3-Diamino-6-  
methoxypyridine 29539-03-5, 5,6-Dihydroxyindoline 39489-79-7,  
5-Amino-2,4-dichlorophenol 53222-92-7, 3-Amino-2-methylphenol  
55302-96-0, 5-[(2-Hydroxyethyl)amino]-2-methylphenol 61693-42-3,  
3-Amino-2,4-dichlorophenol 70643-19-5, 2,4-Diamino-1-(2-  
hydroxyethoxy)benzene 71005-35-1 71077-37-7, 1,3-Diamino-4-(2-  
methoxyethoxy)benzene 71500-41-9, 4-Amino-2-[bis(2-hydroxyethyl)amino]-1-  
ethoxybenzene 71500-42-0, 3-[Bis(2-hydroxyethyl)amino]aniline  
74918-21-1 75513-65-4, 1,3-Diamino-4-(2,3-dihydroxypropoxy)benzene  
76045-64-2, 3-[(2-Aminoethyl)amino]aniline 78661-33-3,  
2-Amino-1-(2-hydroxyethoxy)-4-methylaminobenzene 80592-80-9,  
3-[(2,3-Dihydroxypropyl)amino]-2-methylphenol 80592-81-0,  
3-[(2-Hydroxyethyl)amino]-2-methylphenol 81892-72-0,  
1,3-Bis(2,4-diaminophenoxy)propane 83763-47-7, 2-Amino-4-[(2-  
hydroxyethyl)amino]anisole 84540-47-6, 2,6-Dihydroxy-3,4-  
dimethylpyridine 84540-48-7, 2,4-Diaminophenoxyacetic acid 84540-50-1,  
3-Amino-2-chloro-6-methylphenol 85679-78-3, 3,5-Diamino-2,6-  
dimethoxypyridine 86817-42-7, 2-(4-Amino-2-hydroxyphenoxy)ethanol  
90817-34-8, 3-Amino-6-methoxy-2-(methylamino)pyridine 94082-77-6,  
2,4-Diamino-1,5-bis(2-hydroxyethoxy)benzene 94158-14-2 104752-50-3,  
1-(2-Aminoethoxy)-2,4-diaminobenzene 104752-51-4, 1,2-Dichloro-3,5-  
dihydroxy-4-methylbenzene 110102-86-8, 5-Amino-4-chloro-2-methylphenol  
111451-24-2 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene 122455-85-0,  
5-Amino-4-fluoro-2-methylphenol 137290-78-9, 5-Amino-4-methoxy-2-  
methylphenol 137290-86-9, 5-[(2-Hydroxyethyl)amino]-4-methoxy-2-  
methylphenol 139443-57-5, 5-Amino-4-ethoxy-2-methylphenol 141614-04-2,  
2,4-Diamino-1-ethoxy-5-methylbenzene 141614-05-3, 2,4-Diamino-1-(2-  
hydroxyethoxy)-5-methylbenzene 141922-20-5, 2,4-Diamino-1-fluoro-5-  
methylbenzene 142082-56-2, 3-[(2-Methoxyethyl)amino]phenol 146658-65-3  
149330-25-6, 2,6-Bis[(2-hydroxyethyl)amino]toluene 164919-03-3  
168092-23-7 207923-07-7, 5-Amino-2-ethylphenol 244028-58-8,  
2,4-Bis[(2-hydroxyethyl)amino]-1,5-dimethoxybenzene 244028-59-9,  
5-[(2-Hydroxyethyl)amino]-1,3-benzodioxole 307493-94-3 364366-19-8  
364366-20-1

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(addnl. coupling substance component in oxidative hair dye  
based on developer-coupling substance combination contg.  
dihydroxybenzene derivs.)

- IT 123-30-8, 4-Aminophenol  
RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)  
(amidation by, of protected (diaminophenyl)acrylic acid derivs. and use as developer substance component in oxidative hair dyes)
- IT 14268-66-7, 3,4-Methylenedioxyaniline  
RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)  
(amination of dihydroxybenzaldehyde by and use as addnl. coupling substance component in oxidative hair dyes)
- IT 94564-78-0 150268-63-6 364365-60-6 364365-62-8 364365-63-9  
364365-64-0 364365-65-1 364365-66-2 364365-67-3 364365-68-4  
364365-70-8 364365-72-0 364365-74-2 364365-75-3 364365-76-4  
364365-77-5 364365-78-6 364365-80-0 364365-82-2 364365-83-3  
364365-84-4 364365-85-5 364365-86-6 364365-87-7 364365-88-8  
364365-91-3 364365-92-4 364365-93-5 364365-94-6 364365-95-7  
364365-96-8 364365-97-9 364365-99-1 364366-00-7 364366-01-8  
364366-02-9 364366-04-1 364366-05-2 364366-06-3 364366-08-5  
364367-06-6  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(coupling substance component in oxidative hair dye based on developer-coupling substance combination contg. dihydroxybenzene derivs.)
- IT 2835-98-5, 2-Amino-5-methylphenol  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(developer and addnl. coupling substance components in oxidative hair dyes)
- IT 89-57-6, 5-Aminosalicylic acid 92-65-9, 4-[N-Ethyl-N-(2-hydroxyethyl)amino]aniline 93-05-0, 4-(Diethylamino)aniline 95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 101-54-2, 4-(Phenylamino)aniline 106-50-3, 1,4-Diaminobenzene, biological studies 150-75-4, 4-(Methylamino)phenol 399-95-1, 4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 533-73-3, 1,2,4-Trihydroxybenzene 615-66-7, 1,4-Diamino-2-chlorobenzene 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4(1H)pyrimidinone 1630-11-1 2359-52-6, 4-[Bis(2-hydroxyethyl)amino]-2-methylaniline 2835-96-3, 4-Amino-2-methylphenol 2835-99-6, 4-Amino-3-methylphenol 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5862-80-6, 4-[(2,3-Dihydroxypropyl)amino]aniline 6369-59-1 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 7218-02-2 7575-35-1, 4-[Bis(2-hydroxyethyl)amino]aniline 17672-22-9, 2-Amino-6-methylphenol 29785-47-5, 4-Amino-2-(methoxymethyl)phenol 45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazole 58262-44-5 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-(aminomethyl)benzene 73793-80-3, 1,4-Diamino-2-(hydroxymethyl)benzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene 104333-08-6 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 105293-89-8, 4-(Dipropylamino)aniline 109942-17-8, [1,1'-Biphenyl]-2,5-diamine 110952-46-0, 4-Amino-2-[(2-hydroxyethyl)amino]methylphenol 126335-43-1, 1,4-Diamino-2-(2-hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-aminophenyl)amino]butane 135043-64-0 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole 157469-54-0,

4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1  
 159621-77-9 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane  
 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 207568-58-9,  
 2-(2-(Acetylamino)ethoxy)-1,4-diaminobenzene 244104-61-8,  
 1,4-Diamino-2-(2-thienyl)benzene 246244-41-7, 1,4-Diamino-2-(3-  
 thienyl)benzene 306959-12-6, 1,4-Diamino-2-(3-pyridyl)benzene  
 329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2,  
 1,4-Diamino-2-methoxymethylbenzene 364343-79-3  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(developer substance component in oxidative **hair** dye based on  
 developer-coupling substance combination)

IT 6358-09-4, 2-Amino-6-chloro-4-nitrophenol 131657-78-8,  
 2-Chloro-6-(ethylamino)-4-nitrophenol

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(directly absorbable dye component in oxidative **hair** dye  
 prepn.)

IT 364366-09-6P 364366-11-0P 364366-12-1P 364366-13-2P 364366-14-3P  
 364366-15-4P **364366-16-5P** 364366-17-6P 364366-18-7P  
 364366-21-2P 364366-22-3P 364366-23-4P 364366-24-5P 364366-25-6P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)

(prepn. of, as coupling substance component in oxidative **hair**  
 dye based on developer-coupling substance combination contg.  
 dihydroxybenzene derivs.)

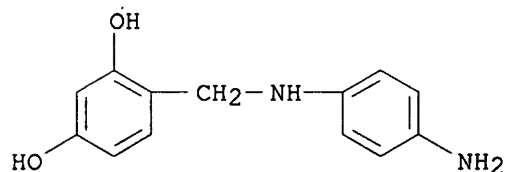
IT **364366-16-5P**

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)

(prepn. of, as coupling substance component in oxidative **hair**  
 dye based on developer-coupling substance combination contg.  
 dihydroxybenzene derivs.)

RN 364366-16-5 HCAPLUS

CN 1,3-Benzenediol, 4-[[4-(aminophenyl)amino]methyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:524685 HCAPLUS

DN 135:111699

TI **Hair** dyes containing 2-aminoalkyl-1,4-diaminobenzene derivatives

IN Chassot, Laurent; Baun, Hans-Jurgen

PA Wella Aktiengesellschaft, Germany

SO Eur. Pat. Appl., 31 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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